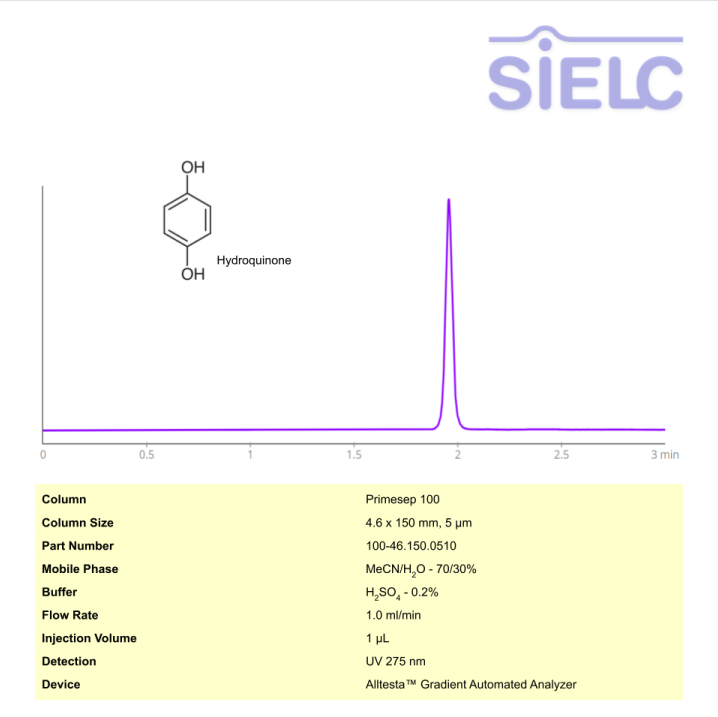
HPLC Method for Analysis of Hydroquinone on Primesep 100 Column on Alltesta™



High Performance Liquid Chromatography (HPLC) Method for Analysis of Hydroquinone

Hydroquinone is an aromatic derivative of benzene with the chemical formula C6H6O2 . It is often used in skin whitening, although it has been banned by the United States Food and Drug Administration for over-the-counter use due to being a potential carcinogen. It can cause a variety of disease including but not limited to ochronosis. thyroid follicular cell hyperplasias, mononuclear cell leukemia, and adenomas. Agencies across the world encourage research into other agents to treat hyperpigmentation. You can find detailed UV spectra of Hydroquinone and information about its various lambda maxima by visiting the following link.

Hydroquinone can be retained and analyzed using the Primesep 100 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with phosphoric acid as a buffer. Detection is performed using UV.

Method Parameters

Column	Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 70%
Buffer	Sulfuric Acid
Flow Rate	1.0 mL/min
Detection	UV 275 nm

Quelle: https://sielc.com/hplc-method-for-analysis-of-hydroquinone